## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A nonconducting substrate forming a strip or a panel on which a plurality of carrier elements having respective boundary lines are formed, comprising:

a contact side;

an insertion side opposite the contact side; and

a conducting insertion-side metallization provided on the insertion side;

wherein the insertion-side metallization is formed such that an electrical

connection can take place by means of flip-chip bonding between contact points of an

integrated circuit to be applied to the insertion side and the insertion-side metallization,

<u>a plurality of contact elements provided on the insertion-side metallization</u>
<u>within each boundary line at least partly for bonding with flip-chip contacts of the integrated circuit,</u>

the contact elements are in a form of interconnects, which respectively have a first and a second end, and at least some of the interconnects are provided with area-covering metallizations, which serve for increasing the bending rigidity of the substrate.

- 2. (Canceled)
- 3. (Original) The substrate according to claim 1, further comprising a contact-side metallization provided on the contact side of the substrate.
- 4. (Original) The substrate according to claim 3, further comprising a plurality of contact areas which are electrically isolated from one another and are provided on the contact-side metallization within each boundary line.
- 5. (Currently Amended) The substrate according to claim 4, wherein the contact areas of the contact-side metallization are <u>shaped as defined in the</u>

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International Organization for Standardization 7816-2 standard formed as ISO contact areas.

- 6. (Original) The substrate according to claim 4, further comprising: a plurality of contact elements provided on the insertion-side metallization within each boundary line at least partly for bonding with flip-chip contacts of the integrated circuit, wherein the contact areas of the contact-side metallization have at least partly an electrical connection with the contact elements of the insertion-side metallization.
- 7. (Original) The substrate according to claim 6, wherein the electrical connection is established by plated-through holes extending through the substrate.
- 8. (Original) The substrate according to claim 7, wherein the plated-through holes are each arranged in a plated-through region of the contact areas of the contact-side metallization which is not intended for bonding with an external reader (ISO zone).
- 9. (Original) The substrate according to claim 3, further comprising a boundary line region which includes the contact-side metallization and brings about an increased moment of resistance in a region of the integrated circuit.
- 10. (Original) The substrate according to claim 9, wherein the boundary line region crosses a line of symmetry, which is formed between oppositely lying contact areas of the contact-side metallization.

## 11. (Canceled)

12. (Original) The substrate according to claim 7, wherein the contact elements of the insertion-side metallization are in a form of interconnects, which respectively have a first end and a second end, the first end of the interconnects

overlapping with a respective one of the plated-through holes and being in electrical connection therewith.

13. (Original) The substrate according to claim 11, wherein the second end has a first contact area for the electrical bonding with a flip-chip contact of the integrated circuit.

## 14.-18. (Canceled)

- 19. (Original) The substrate according to claim 18, wherein the areacovering metallizations are formed within the boundary line of the respective carrier element.
- 20. (Original) The substrate according to claim 18, wherein the areacovering metallizations are provided in a region outside the integrated circuit to be applied.
- 21. (Original) The substrate according to claim 1, further comprising indexing holes, which are provided on the substrate, and to stiffen the substrate, are surrounded by metallizations on the insertion side and/or the contact side.
- 22. (Original) The substrate according to claim 3, further comprising adjusting marks which constitute part of the insertion-side metallization and/or the contact-side metallization and are provided on the substrate for orientation of placement machines.
- 23. (Original) The substrate according to claim 3, further comprising transverse webs which constitute part of the insertion-side metallization and/or contact-side metallization and are provided on the substrate between neighbouring carrier elements.

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24. (Original) The substrate according to claim 1, wherein, in a region of the integrated circuit to be applied, the insertion-side metallization comprises spacers which ensure plane-parallelism between the integrated circuit and the insertion side of the substrate.

## 25.-29. (Canceled)

- 30. (Original) The substrate according to claim 1, wherein the substrate consists of at least one of PEN, PET, PI, and paper.
- 31. (Original) The substrate according to claim 30, wherein the thickness of the substrate is approximately 50 to 125  $\mu$ m.
- 32. (Original) The substrate according to claim 3, wherein the contact-side metallization and the insertion-side metallization are produced by a growing-on process.
- 33. (Original) The substrate according to claim 32, wherein the contact-side metallization and the insertion-side metallization have a thickness of less than 40  $\mu$ m.

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